



area. Frame 5 is depicted more precisely in Figure 2. Frame 5 consists essentially of an aluminum layer 6 and a steel sheet 7, which are connected to one another using an explosive plating process. The thus produced plate heat exchange is distinguished by high strength and is preferably used in high-pressure applications. For further details of the explosive plating process, reference is made to the literature, for example, the attached brochure by Dynamit Nobel entitled ADynaplat Verbindungen durch Sprengstoff.

IN THE CLAIMS:

Please **cancel** claims 15 and 18 without prejudice or disclaimer of the subject matter contained therein.

Please **amend** the claims 8 and 16 as follows:

Please amend the claims as follows:

8. (Twice Amended) A plate heat exchanger block comprising: an aluminum or aluminum housing, at least partly within said housing a plurality of aluminum or aluminum alloy sheets (2) of at least partially corrugated metal arranged parallel to one another and forming a plurality of heat-exchange passages, at least one steel header (3) in communication with at least some of the heat-exchange passages, wherein at least two parts (1, 2, 3) of the plate heat exchanger block consist essentially of aluminum metallic materials that cannot be welded to one another and wherein the plate heat exchanger block includes an intermediate piece (5) between the header (3) and the heat exchange passages (2) containing the plurality of sheets, the intermediate member having a steel



part facing the header and an aluminum part facing the housing, the parts having been bonded together by explosive plating wherein the intermediate piece is welded, aluminum to aluminum, to at least one of the (a) the housing and (b) the corrugated sheets.

16. (Twice Amended) A heat exchange header for attachment to a heat exchanger having aluminum components, the heat exchange header consisting essentially of steel and including a connecting piece having first and second sides, the connecting piece consisting essentially of steel on one side and consisting essentially of aluminum the other side the aluminum being explosively bonded to the steel, said header being welded to the steel side of said connecting piece.